- 1. The therapeutic composition comprising a cobalamin drug conjugate and a cytokine.
- 2. The composition of claim 1, wherein the cobalamin drug conjugate is a vitamin B_{12} analog.
- 3. The therapeutic composition of claim 1, wherein the cobalamin drug conjugate is selected from the group consisting of hydroxocobalamin, cyanocobalamin, methylcobalamin, 5'deoxyadenocobalamin, nitrosylcobalamin, and radiolabeled vitamin B_{12} analog.
- 4. The therapeutic composition of claim 1, further including a pharmaceutical carrier.
- 5. The therapeutic composition of claim 1, wherein the cytokine is an interferon- α .
- 6. A method of enhancing uptake of a cobalamin drug conjugate comprised of administering a cytokine and administering a cobalamin drug conjugate.
- 7. The method of claim 6, wherein said cobalamin the cobalamin drug conjugate is a vitamin B_{12} analog.
- 8. The method of claim 6, wherein the cobalamin drug conjugate is selected from the group consisting of hydroxocobalamin, cyanocobalamin, methylcobalamin, 5'deoxyadenocobalamin, nitrosylcobalamin, and radiolabeled vitamin B₁₂ analog.
- 9. The method of claim 6, wherein the cytokine is administered with a pharmaceutical carrier.
 - 10. The method of claim 6, wherein said cytokine is an interferon-α.
- 11. A method of increasing TCII-R activity in a subject to treat a condition favorably affected by an increase in said TCII-R activity comprising the step of administering to

a subject in need of such treatment a cytokine in an amount effective to increase TCII-R activity in the subject.

- 12. The method of claim 11, further comprising the step of co-administering a cobalamin drug conjugate.
- The method of claim 12, wherein the cobalamin drug conjugate is a vitamin B_{12} analog.
- 14. The method of claim 12, wherein the cobalamin drug conjugate is selected from the group consisting of hydroxocobalamin, cyanocobalamin, methylcobalamin, 5'deoxyadenocobalamin, nitrosylcobalamin, and radiolabeled vitamin B₁₂ analog.
- 15. The method of claim 12, wherein said cytokine is administered prior to the cobalamin drug conjugate.
- 16. The method of claim 12, wherein said cytokine is administered prophylactically.
 - 17. The method of claim 12, wherein said cytokine is administered acutely.
 - 18. The method of claim 11, wherein said cytokine is an interferon- α .
- 19. The method of claim 11, wherein said condition is unwanted cellular proliferation.
- 20. The method of claim 11, wherein the cytokine is administered with a pharmaceutical carrier.